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(54) PREPARATION OF ETHYLENE COPOLYMER

(57) Abstract:

PURPOSE: To obtain a low-density ethylene copolymer, by copolymerizing preliminarily ethylene with an α -olefin using a catalyst comprising a titanium catalyst component with a specific specification supported by a magnesium compound and an aluminum compound, followed by polymerization.

CONSTITUTION: In the preparation of an ethylene copolymer with a density of 0.900W0.945g/cm² by copolymerizing ethylene with a small ratio of an α -olefin having 3 or more C at a temperature not higher

than 100°C by using a catalyst comprising A) a titanium catalyst component supported by a magnesium compound, consisting of A-1) a substance having a specific surface area not less than 40m²/g, an average particle diameter of 5W200 μ , and a standard deviation of particle size distribution not more than 2.1 and (A-2) a substance having a specific surface area not less than 80m²/g and an organic acid ester and B) an organoaluminum compound, 0.01W50g of ethylene per g of the titanium catalyst component is copolymerized preliminarily with a 3 \leq C α -olefin and then polymerized to give the copolymer. The rate of the preliminary copolymerization is not more than one-fifth of that of the polymerization.

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